

## PATENT COOPERATION TREATY

PCT

From the INTERNATIONAL BUREAU

**RECEIVED**NOTIFICATION OF RECEIPT OF  
RECORD COPY

01.12.10 (PCT Rule 24.2(a))

**Hayashi, Doi  
& Associates**

To:

HAYASHI, Tsunenori  
 Hayashi, Doi & Associates  
 Toshou-Bldg. No. 3, 3-9-5, Shin-  
 yokohama, Kohoku-ku  
 Yokohama-shi, Kanagawa 222-0033  
 JAPON

Date of mailing (day/month/year)

27 November 2001 (27.11.01)

**IMPORTANT NOTIFICATION**

Applicant's or agent's file reference

0151580

International application No.

PCT/JP01/09557

The applicant is hereby notified that the International Bureau has received the record copy of the international application as detailed below.

Name(s) of the applicant(s) and State(s) for which they are applicants:

FUJITSU LIMITED (for all designated States except US)  
 TAMAI, Naofumi (for US)

International filing date

: 31 October 2001 (31.10.01)

Priority date(s) claimed

:

Date of receipt of the record copy  
by the International Bureau

:

16 November 2001 (16.11.01)

List of designated Offices

:

National :JP,US

**ATTENTION**

The applicant should carefully check the data appearing in this Notification. In case of any discrepancy between these data and the indications in the international application, the applicant should immediately inform the International Bureau.

In addition, the applicant's attention is drawn to the information contained in the Annex, relating to:

☒ time limits for entry into the national phase

☒ confirmation of precautionary designations

☐ requirements regarding priority documents

A copy of this Notification is being sent to the receiving Office and to the International Searching Authority.

The International Bureau of WIPO  
 34, chemin des Colombettes  
 1211 Geneva 20, Switzerland

Facsimile No. (41-22) 740.14.35

Authorized officer:

Y. KUWAHARA

Telephone No. (41-22) 338.83.38

**INFORMATION ON TIME LIMITS FOR ENTERING THE NATIONAL PHASE**

The applicant is reminded that the "national phase" must be entered before each of the designated Offices indicated in the Notification of Receipt of Record Copy (Form PCT/IB/301) by paying national fees and furnishing translations, as prescribed by the applicable national laws.

The time limit for performing these procedural acts is **20 MONTHS** from the priority date or, for those designated States which the applicant elects in a demand for international preliminary examination or in a later election, **30 MONTHS** from the priority date, provided that the election is made before the expiration of 19 months from the priority date. Some designated (or elected) Offices have fixed time limits which expire even later than 20 or 30 months from the priority date. In other Offices an extension of time or grace period, in some cases upon payment of an additional fee, is available.

In addition to these procedural acts, the applicant may also have to comply with other special requirements applicable in certain Offices. It is the applicant's responsibility to ensure that the necessary steps to enter the national phase are taken in a timely fashion. Most designated Offices do not issue reminders to applicants in connection with the entry into the national phase.

For detailed information about the procedural acts to be performed to enter the national phase before each designated Office, the applicable time limits and possible extensions of time or grace periods, and any other requirements, see the relevant Chapters of Volume II of the PCT Applicant's Guide. Information about the requirements for filing a demand for international preliminary examination is set out in Chapter IX of Volume I of the PCT Applicant's Guide.

GR and ES became bound by PCT Chapter II on 7 September 1996 and 6 September 1997, respectively, and may, therefore, be elected in a demand or a later election filed on or after 7 September 1996 and 6 September 1997, respectively, regardless of the filing date of the international application. (See second paragraph above.)

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

**CONFIRMATION OF PRECAUTIONARY DESIGNATIONS**

This notification lists only specific designations made under Rule 4.9(a) in the request. It is important to check that these designations are correct. Errors in designations can be corrected where precautionary designations have been made under Rule 4.9(b). The applicant is hereby reminded that any precautionary designations may be confirmed according to Rule 4.9(c) before the expiration of 15 months from the priority date. If it is not confirmed, it will automatically be regarded as withdrawn by the applicant. There will be no reminder and no invitation. Confirmation of a designation consists of the filing of a notice specifying the designated State concerned (with an indication of the kind of protection or treatment desired) and the payment of the designation and confirmation fees. Confirmation must reach the receiving Office within the 15-month time limit.

**REQUIREMENTS REGARDING PRIORITY DOCUMENTS**

For applicants who have not yet complied with the requirements regarding priority documents, the following is recalled.

Where the priority of an earlier national, regional or international application is claimed, the applicant must submit a copy of the said earlier application, certified by the authority with which it was filed ("the priority document") to the receiving Office (which will transmit it to the International Bureau) or directly to the International Bureau, before the expiration of 16 months from the priority date, provided that any such priority document may still be submitted to the International Bureau before that date of international publication of the international application, in which case that document will be considered to have been received by the International Bureau on the last day of the 16-month time limit (Rule 17.1(a)).

Where the priority document is issued by the receiving Office, the applicant may, instead of submitting the priority document, request the receiving Office to prepare and transmit the priority document to the International Bureau. Such request must be made before the expiration of the 16-month time limit and may be subjected by the receiving Office to the payment of a fee (Rule 17.1(b)).

If the priority document concerned is not submitted to the International Bureau or if the request to the receiving Office to prepare and transmit the priority document has not been made (and the corresponding fee, if any, paid) within the applicable time limit indicated under the preceding paragraphs, any designated State may disregard the priority claim, provided that no designated Office may disregard the priority claim concerned before giving the applicant an opportunity to furnish the priority document within a time limit which is reasonable under the circumstances.

Where several priorities are claimed, the priority date to be considered for the purposes of computing the 16-month time limit is the filing date of the earliest application whose priority is claimed.

BEST AVAILABLE COPY

From the INTERNATIONAL BUREAU

**PCT****NOTICE INFORMING THE APPLICANT OF THE  
COMMUNICATION OF THE INTERNATIONAL  
APPLICATION TO THE DESIGNATED OFFICES**

(PCT Rule 47.1(c), first sentence)

To:

HAYASHI, Tsunenori  
Hayashi, Doi & Associates  
Toshou-Bldg. No. 3, 3-9-5, Shin-yokohama, Kohoku-ku  
Yokohama-shi, Kanagawa 222-0033  
JAPON

Date of mailing(day/month/year)  
08 May 2003 (08.05.03)

Applicant's or agent's file reference  
0151580

2001318T001W1

**IMPORTANT NOTICE**

International application No.  
PCT/JP01/09557

International filing date(day/month/year)  
31 October 2001 (31.10.01)

Priority date(day/month/year)

Applicant

FUJITSU LIMITED

1. Notice is hereby given that the International Bureau has **communicated**, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this notice:

**US**

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

**JP**

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this notice is a copy of the international application as published by the International Bureau on 08 May 2003 (08.05.03) under No. 03/039084

4. **TIME LIMITS for filing a demand for international preliminary examination and for entry into the national phase**

The applicable time limit for entering the national phase will, **subject to what is said in the following paragraph**, be **30 MONTHS** from the priority date, not only in respect of any elected Office if a demand for international preliminary examination is filed before the expiration of **19 months** from the priority date, but also in respect of any designated Office, in the absence of filing of such demand, where Article 22(1) as modified with effect from 1 April 2002 applies in respect of that designated Office. For further details, see *PCT Gazette* No. 44/2001 of 1 November 2001, pages 19926, 19932 and 19934, as well as the *PCT Newsletter*, October and November 2001 and February 2002 issues.

In practice, **time limits other than the 30-month time limit** will continue to apply, for various periods of time, in respect of certain designated or elected Offices. For **regular updates on the applicable time limits** (20, 21, 30 or 31 months, or other time limit), Office by Office, refer to the *PCT Gazette*, the *PCT Newsletter* and the *PCT Applicant's Guide*, Volume II, National Chapters, all available from WIPO's Internet site, at <http://www.wipo.int/pct/en/index.html>.

For filing a **demand for international preliminary examination**, see the *PCT Applicant's Guide*, Volume I/A, Chapter IX. Only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination (at present, all PCT Contracting States are bound by Chapter II).

It is the applicant's **sole responsibility** to monitor all these time limits.

The International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland

Authorized officer

Judith Zahra

Facsimile No.(41-22) 740.14.35

Telephone No.(41-22) 338.91.11

(19) 世界知的所有権機関  
国際事務局



(43) 国際公開日  
2003 年 5 月 8 日 (08.05.2003)

PCT

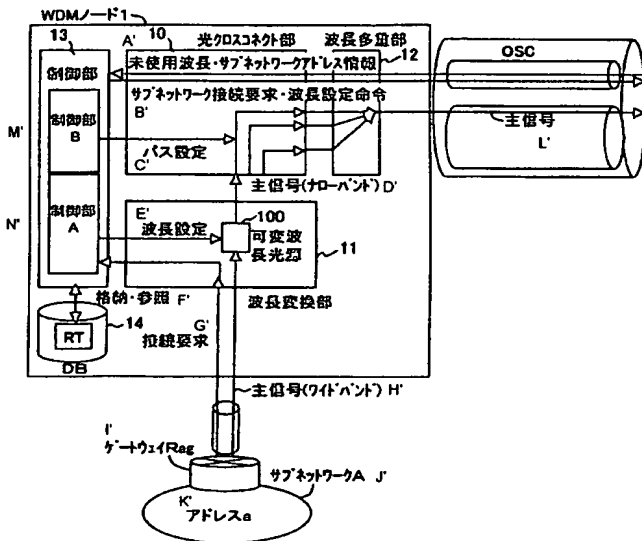
(10) 国際公開番号  
WO 03/039084 A1

- (51) 国際特許分類<sup>7</sup>: H04L 12/56, H04J 14/02 奈川県川崎市中原区上小田中4丁目1番1号 Kanagawa (JP).
- (21) 国際出願番号: PCT/JP01/09557
- (22) 国際出願日: 2001 年 10 月 31 日 (31.10.2001)
- (25) 国際出願の言語: 日本語
- (26) 国際公開の言語: 日本語
- (71) 出願人 (米国を除く全ての指定国について): 富士通株式会社 (FUJITSU LIMITED) [JP/JP]; 〒211-8588 神
- (72) 発明者; および
- (75) 発明者/出願人 (米国についてのみ): 玉井尚文 (TAMAI, Naofumi) [JP/JP]; 〒211-8588 神奈川県川崎市中原区上小田中4丁目1番1号 富士通株式会社内 Kanagawa (JP).
- (74) 代理人: 林 恒徳, 外 (HAYASHI, Tsunenori et al.); 〒222-0033 神奈川県横浜市港北区新横浜3-9-5 第三東昇ビル 林・土井国際特許事務所 Kanagawa (JP).

[続葉有]

(54) Title: WDM NETWORK SYSTEM AND WDM NODE USED THEREIN

(54) 発明の名称: WDMネットワークシステム及びこれに用いるWDMノード



(57) Abstract: The one-to-one fixed relation between clients can be canceled and global resources such as wavelengths/path resources are used effectively by a WDM (wavelength division multiplexing) network system for an automatic wavelength control with an IP address. The WDM network system comprises an optical wavelength multiplexing (WDM) transmission line, a plurality of sub-networks each accommodating clients and a plurality of WDM nodes corresponding respectively to the sub-networks and connected with the optical wavelength multiplexing transmission line. Each of the WDM nodes includes a wavelength converting unit for controlling the oscillation wavelength in accordance with the address for specifying the destination with an IP address and a cross connect unit for cross-connecting a line to an adjoining WDM node for connection with the destination.

- 1...WDM NODE  
13...CONTROL UNIT  
M'...CONTROL UNIT B  
N'...CONTROL UNIT A  
10...OPTICAL CROSS CONNECT UNIT  
A'...UNUSED WAVELENGTH/SUB-NETWORK ADDRESS INFORMATION  
B'...SUB-NETWORK CONNECTION REQUEST/WAVELENGTH SETTING INSTRUCTION  
C'...PATH SETTING  
D'...MAIN SIGNAL (NARROW BAND)  
11...WAVELENGTH CONVERTING UNIT  
100...VARIABLE WAVELENGTH LIGHT SOURCE  
E'...WAVELENGTH SETTING  
12...WAVELENGTH MULTIPLEXING UNIT  
F'...STORAGE/REFERENCE  
G'...CONNECTION REQUEST  
H'...MAIN SIGNAL (WIDE BAND)  
I'...GATEWAY RAG  
J'...SUB-NETWORK A  
K'...ADDRESS A  
L'...MAIN SIGNAL

[続葉有]



(81) 指定国 (国内): JP, US.

添付公開書類:  
— 国際調査報告書

2文字コード及び他の略語については、定期発行される各PCTガゼットの巻頭に掲載されている「コードと略語のガイダンスノート」を参照。

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(57) 要約:

IPアドレスによる自動波長制御を行うWDM（波長分割多重化）ネットワークシステムにより波長・パスなどの帯域資源の有効利用を図り、クライアント同士1対1の固定的関係の解除を可能とする。前記WDM（波長分割多重化）ネットワークシステムは、光波長多重（WDM）伝送路と、それぞれクライアントを収容する複数のサブネットワークと、前記複数のサブネットワークのそれぞれに対応し、前記光波長多重伝送路に接続される複数のWDMノードを有し、前記複数のWDMノードのそれぞれは、IPアドレスで通信先が特定される宛先アドレスに従って発振波長を制御する波長変換部と、前記通信先に繋ぐための隣接のWDMノードに向かう方路にクロスコネクトするクロスコネクト部を含む。